

Application No. 09/211,715
Reply to Advisory Action of July 2, 2003

September 10, 2003
S&L File No. P26,835-D USA

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-6 (Canceled)

Claim 7 (Original): A compound selected from the group consisting of CF₃C(O) - (iBu) Phe (NH₂) -Chg-Arg-Leu-Pro-NH₂;
Ac-pAph-Ile-Arg-Leu-Pro-NH₂; CF₃C(O) - (iBu) Nal (2) -Chg-Arg-Leu-Pro-NH₂;
Ac-Phe (3I,4NH₂) -Chg-Arg-Leu-Pro-NH₂; CF₃C(O) -Tyr-Chg-Arg-Leu-Pro-NH₂;
(5-benzimidazoyl) -Phe (NH₂) -Chg-Arg-Leu-Pro-NH₂;
CF₃C(O) - (iBu) Tyr-Ile-Arg-Leu-Pro-NH₂;
Ac- (Chx-CH₂) Tyr-Ile-Arg-Leu-Pro-NH₂; D-Tyr-Chg-Arg-Leu-Pro-NH₂; and
Ac-Trp-Chg-Arg-Leu-Pro-NH₂.

Claim 8 (Currently amended): The compound selected from the group consisting of (2-benzofuroyl)-Tyr-Chg-Arg-Pen-Pro-NH₂;
(2-benzofuroyl) -pAph-Chg-PalMe(3) -Pen (CH₂COOH) -Pro-NH₂;
Ac-pAph-Chg-Arg-Cys (CH₂COOH) -Pro-NH₂;
(Alloc) -pAph-Chg-Arg-Leu-Pro-NH₂;
(2-benzofuroyl) -pAph-Chg-Arg-Pen (CH₂COOH) -Pro-NH₂;
Ac-pAph-Chg-PalMe(3) -Pen (CH₂COOH) -Pro-NH₂;
Ac-pAph-Chg-Arg-Leu-Pro-NH₂; Ac-pAph-Chg-Arg- (HOOC-CH₂) Gly-Pro-NH₂;
Ac-pAph-Chg-Arg (HOOC-CH₂-CH₂) Gly-Pro-NH₂;

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Ac-pAph-Chg-Arg-Gla-Pro-NH₂; Ac-pAph-Chg-Arg-Cys (CH₂-COOH)-Pro-NH₂;
Ac-Pal(4)Me-Chg-Arg-Leu-Pro-NH₂; Ac- (iBu) Nal (2) -Chg-Arg-Leu-Pro-NH₂;
Ac-Phe (p-CONH₂) -Chg-Arg-Leu-Pro-NH₂;
Ac-pAph-Chg-Arg-N [1(1,3-dicarboxy) propyl] Gly-Pro-NH₂;
Ac-pAph-Chg-Dap (CH=N(CH₃)₂) -Leu-Pro-NH₂;
(2-quinolinoyl) -Phe (NH₂) -Chg-Arg-Leu-Pro-NH₂;
Ac-pAph-Chg-Arg-N (carboxymethyl) Gly-Pro-NH₂;
Ac-pAph-Chg-Arg- (carboxyethyl) Gly-Pro-NH₂; Ac-mAph-Chg-Arg-Leu-Pro-NH₂;
Alloc-pAph-Chg-PalMe(3) -Pen (CH₂COOH)-Pro-NH₂;
Ac-pAph-Chg-Arg-N [1(1,3-dicarboxy) propyl] Gly-Pro-NH₂;
Ac-pAph-Ile-Arg-Leu-Pro-NH₂; Ac-Phe (pNH₂) -Chg-Arg- (Me) Leu-Pro-NH₂;
Ac- (Chx-CH₂) Tyr-Chg-Arg-Leu-Pro-NH₂;
(3-pyridoyl) -Phe (pNH₂) -Chg-Arg-Leu-Pro-NH₂;
(3-pyridoyl) -Nal (2) -Chg-Arg-Leu-Pro-NH₂;
Ac-Pal(4)Me-Chg-Pal(4)Me-Leu-Pro-NH₂; Alloc-pAph-Chg-Arg-Leu-Pro-NH₂;
(4-isoquinolinoyl) -Phe (pNH₂) -Chg-Arg-Leu-Pro-NH₂;
Ac-pAph-Cha-PalMe(3) - (Me) Leu-Pro-NH₂;
Ac-pAph-Chg-PalMe(3) -Leu-Pro-NH₂;
(2-naphthyl-CH₂) Phe (pNH₂) -Chg-Arg-Leu-Pro-NH₂;
(5-pyrazinoyl) Nal (2) -Chg-Arg-Leu-Pro-NH₂;
(Benzoyl) - Phe (pNH₂) -Chg-Arg-Leu-Pro-NH₂;
Ac- (2-methylpentanyl) -Tyr-Ile-Arg-Leu-Pro-NH₂;
(2-pyridonyl) Phe (pNH₂) Chg-Arg-Leu-Pro-NH₂;
(Benzoyl) -Phe (pNH₂) -Chg-Arg-Leu-Pro-NH₂;
Ac- (2-methylpentyl) Tyr-Ile-Arg-Leu-Pro-NH₂;
Ac- (iBu) Phe (pCN) -Chg-Arg-Leu-Pro-NH₂;

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Ac- (2-methylbutyl) Tyr-Ile-Arg-Leu-Pro-NH₂;
Ac-Phe (pNH₂) -Chg-Arg-Leu-Pro-NH₂; Ac-Phe (pNH₂) -Chg-Arg-Leu-Hyp-NH₂;
Ac-Tyr-Chg-Arg-Leu-Pro-NH₂;
(2-naphthylsulfonyl) -Phe (pNH₂) -Chg-Arg-Leu-Pro-NH₂;
(2-methylbenzyl) -Phe (pNH₂) -Chg-Arg-Leu-Pro-NH₂;
(2-benzofuroyl) -Phe(pNH₂) -Chg-Dab (CH=N(CH₃)₂) -Leu-Pro-NH₂;
Ac- (cyclopentenyl-CH₂) Tyr-Ile-Arg-Leu-Pro-NH₂;
Ac-Pal (4) Me-Chg-PalMe(3) -Leu-Pro-NH₂;
Ac- (iBu) -Phe (pNH₂) -Chg-Arg-Leu-Pro-NH₂; and
Ac- (Chx-CH₂) -Tyr-Ile-Arg-Leu-Pro-NH₂.

Claim 9 (Previously presented): A compound selected from the group consisting of Ac-pAph-Chg-Arg-Leu-NH₂ and Ac-pAph-Chg-Arg-Leu.

Claim 10 (Previously presented): A compound selected from the group consisting of (2-benzofuroyl) -pAph-Chg-PalMe(3) -NH₂ and
Ac- (iBu) Phe (pNH₂) -Chg-Arg-NH₂.

Claim 11 (Currently amended): A compound selected from the group consisting of Alloc-pAph-Chg-PalMe(3) -NH₂;
(2-quinolinoyl) -pAph-Chg-PalMe(3) -NH₂;
Ac-pAph-Chg-PalMe(3) -NH (1-methoxycarbonyl) -1-cyclohexyl;
Ac-pAph-Chg-Arg-NH₂; (2-pyridoyl) -pAph-Chg-PalMe(3) -NH₂;
CF₃C(O) - (iBu) Phe (pNH₂) -Chg-Arg-NH₂;
Ac-pAph-Chg-PalMe(3) -NH- (1-methoxycarbonyl) -1-cyclopentyl;
Ac-pAph-Chg-PalMe(3) -NH- (4-methoxycarbonyl-cyclohexyl) methyl;

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Ac-pAph-Chg-PalMe(3) -NH- (3-thienyl-2-carboxylic acid methyl ester);
Ac-pAph-Chg-Arg-NH₂; CF₃C(O) - (iBu) Tyr-Chg-Arg- OH COOH;
Ac-pAph-Chg-PalMe(3) -NH- (4-methoxycarbonyl-cyclohexyl) methyl;
Ac-pAph-Chg-PalMe(3) -NH₂; Ac-pAph-Chg-Pal(3) (CH₂COOH) -NH₂;
(2-quinolinecarboxy) -pAph-Chg-PalMe(3)-NH₂;
Ac-pAph-Chg-PalMe(3) -NH- (4-carboxycyclohexyl) methyl; and
CF₃C (O) (iBu) -Tyr-Ile-Arg-NH₂.

Claims 12-19 (Canceled)

Claim 20 (Previously presented): A compound selected from the group consisting of Ac-*D*-pAph-Chg-Arg-Leu-Pro-NH₂;
Ac-*D*-pAph-Chg-Arg-Gla-Pro-NH₂;
Ac-*D*-pAph-Chg-Arg-Cys (CH₂-COOH) -Pro-NH₂;
Ac-*D*-pAph-Chg-Arg-N (carboxymethyl) Gly-Pro-NH₂;
Ac-*D*-pAph-Chg-Arg- (carboxyethyl) Gly-Pro-NH₂;
Ac-*D*-pAph-Chg-Arg-N [1(1,3-dicarboxy) propyl] Gly-Pro-NH₂;
Ac-*D*-pAph-Ile-Arg-Leu-Pro-NH₂; Alloc-*D*-pAph-Chg-Arg-Leu-Pro-NH₂;
Ac-*D*-pAph-Chg-PalMe(3) -Leu-Pro-NH₂; and Ac-*D*-pAph-Chg-Arg-NH₂.

Claim 21 (Previously presented): A compound
Ac-*D*-pAph-Chg-PalMe(3) -Leu-Pro-NH₂.

Claim 22 (Previously presented): A compound
Ac-*D*-pAph-Chg-PalMe(3) -NH₂.

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Claim 23 (Original): A compound Ac-Phe (pNH₂) -Chg-Arg-Leu-Pro-NH₂.

Claim 24 (Canceled)

Claim 25 (Previously presented): A method of specifically inhibiting the activity of Factor Xa, comprising contacting the factor Xa with the compound as in claims 7, 8, 9, 10, 11, 20, 21, 22, or 23.

Claim 26 (Canceled)